

Laser Ranging Ground System

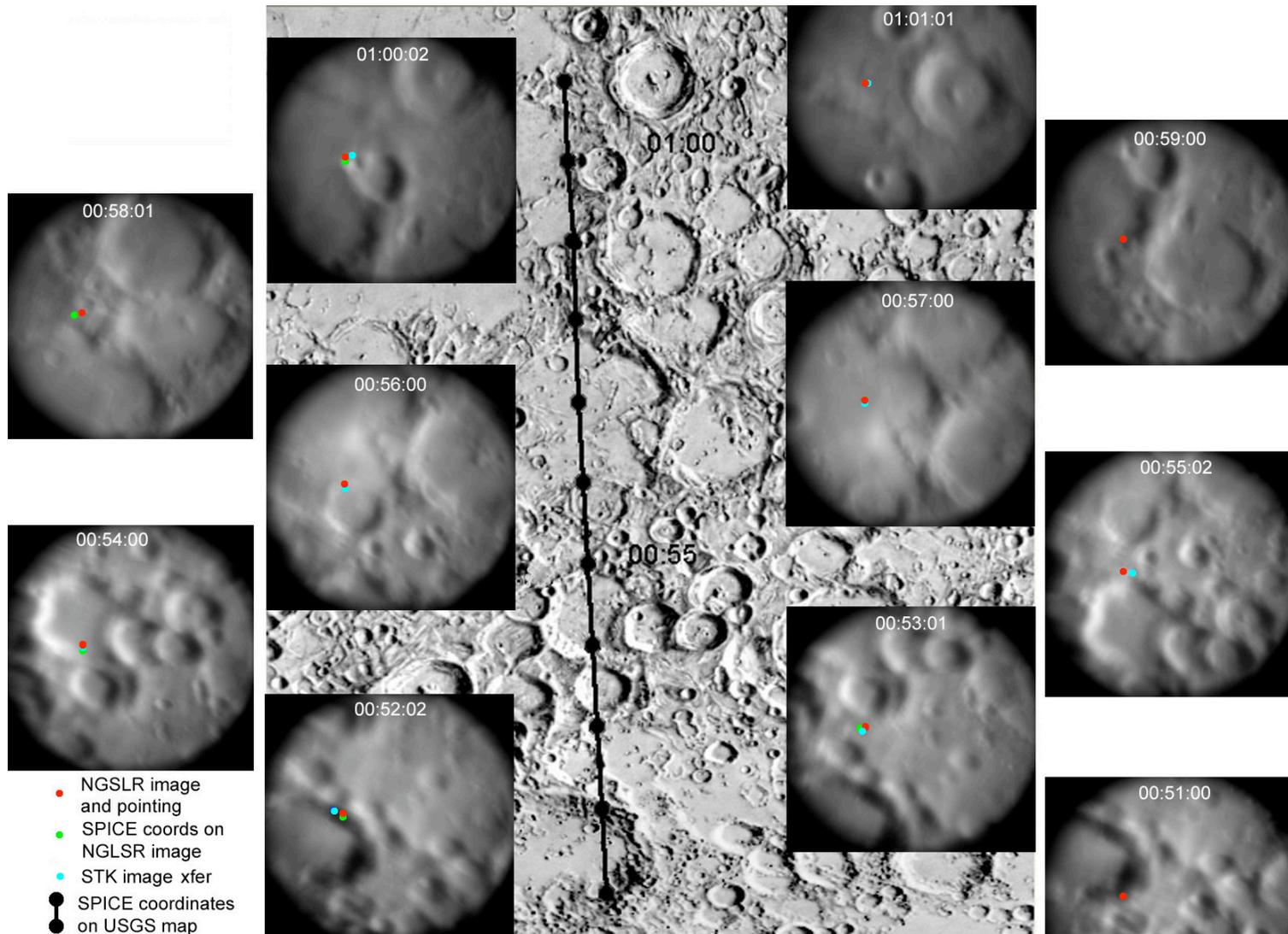
- **Progress**

- Images along the LRO “fake” pass were taken the night of May 13th (GMT 5/14), at about half moon. Comparison of the pointing, as defined by the images taken with the system CCD, to the STK locations given to us by FDF, showed system pointing accuracy at the 2-3 arc second level (which was about the resolution capability of the test). This successfully concludes the prediction and pointing part of NGSLR testing.
- Preparing for end of month timing tests with Instrument Scientist. Internal timing data is being collected and analyzed. Cesium timing standard has been installed at NGSLR and has been in use for fire and receive measurements for the last several weeks. TrueTime rubidium continues as the Station timing tie to UTC.
- Analysis to determine 1-way system delay is underway.
- New operators are in training at MOBLAS-7 and have started at NGSLR.
- Test data file (linking NGLSR with LR flight segment) has been given to the LOLA BCE team. A file similar to this one will be used for LR End to End testing.
- We still owe FDF a more realistic CRD file.

- **Issues & Risks**

- FY09 SLR funding for NGSLR from NASA HQ – promised but not yet received.

Laser Ranging Ground System (cont)



The projected orbit track from 00:51 to 01:01. The large background image is the USGS product and the small insets are NGSLR images. Each NGSLR image can be matched with the USGS map by tracing horizontally from the red dot across to the black dot on the orbit track.